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Patent Abstract

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GER 2001-08-09 10002004 **Atomization appliance**

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The invention involves an atomization appliance for a
Gas/FloOssigkeitsgemisch, especially to the entry into a
chemical reformer to the production of hydrogen, that at
least one Gaszuleitung for the supply of a Gasstroms (11,

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11a, 21) and at least one liquid inlet (16, 18) for the supply of a liquid stream (17, 19) contains. The liquid inlet (16, 18) leads at an exit place (16a, 18a) in a Venturirohr (12), that is in the Gaszuleitung.

EXEMPLARY CLAIMS- 1. Atomization appliance for a Gas/FloOssigkeitsgemisch, especially to the entry into a chemical reformer to the production of hydrogen, with at least one Gaszuleitung for the supply of a Gasstroms and at least one liquid inlet for the supply of a liquid stream, with what the liquid inlet leads at an exit place in the Gaszuleitung, through it marked, that a first Venturirohr (12) is intended, that from the Gasstrom, 11, 11 a, the Gaszuleitung durchstroemt is, and that the exit place, 16 a, 18 a, in the area of the lowest diameter (14) into the first Venturirohr (12) leads. 2. Atomization appliance after claim 1, marked by it, that the first Venturirohr (12) at least partially is angeordnet for a Gasrohres (20), that from the Gasstrom, 11 a, 21, the Gaszuleitung durchstroemt is. 3. Atomization appliance after claim 2, marked by it, that the Gasrohr (20) in the area of the Venturirohres (12) trains a second Venturirohr (22). 4. Atomization appliance after at least one of the claims 1 to 3, marked by it, that the first Venturirohr (12) in the second Venturirohr (22) is angeordnet so, that the exit-page opening (15) of the first Venturirohres (12) is in the area of the lowest diameter (24) of the second Venturirohres (22). 5. Atomization appliance after claim 3 or 4, marked by it, that the Gasrohr (20) at least partially is angeordnet within another Gasrohres of bigger diameter, that from the Gasstrom, 11 a, 21, the Gaszuleitung durchstroemt is. 6. Atomization appliance after at least one of the claims 1 to 5, marked by it, that the further Gasrohr in the area of the second Venturirohres (22) trains a third Venturirohr. 7. Atomization appliance after claim 6, marked by it, that the second Venturirohr (22) in the third Venturirohr angeordnet is so, that the exit-page opening of the second Venturirohres (22) is in the area of the lowest diameter of the third Venturirohres. 8. Atomization appliance after at least one of the claims 1 to 7, marked by it, that waters are a fuel as

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